

# Product datasheet

Specifications



## universal protection relay, PowerLogic P3U20 universal protection feeder and motors

P3U20

### Main

<b>Range Of Product</b>	PowerLogic P3
<b>Relay Application</b>	Feeder Motor
<b>Product Reference</b>	P3U
<b>Device Mounting</b>	Flush
<b>Mounting Support</b>	Rack
<b>Mounting Mode</b>	Disconnectable
<b>Power Supply</b>	110...230 V AC/DC 50/60 Hz tolerance: + 10 % - 15 % 24...48 V AC/DC
<b>Measuring Inputs</b>	: 1/5 A CT 8 : 1/0.2 A CT
<b>Number Of Digital Outputs (Do)</b>	10 digital
<b>Communication Protocols</b>	TCP/IP all counters conforming to 60255-5 TCP/IP -
<b>Redundancy Communication Port Protocol</b>	PRP RSTP
<b>Cybersecurity</b>	Enable/disable communication ports Firmware signature Password protection Port hardening Role-based access control

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Protection Functions</b>	Phase overcurrent 50/51 Phase overcurrent 50/51 8 Earth fault overcurrent 50N/51N Directional earth fault 67N Transient earth fault 67NI Capacitor bank unbalance 51C Current protection 46 I2/I1 Cold load pick-up CPLU 50/51 Harmonic distortion 50/51 Circuit breaker protection 50 BF Switch ON to fault (SOTF) 50/51 Fault locator 21FL Recloser 79 Undercurrent 37 Locked rotor for starting 48/51LR Motor restart inhibition 66 Capacitor overvoltage 59C Negative sequence overcurrent 46 Earth fault overcurrent 51N/51G Underfrequency 81 Overfrequency 81O Rate of change of frequency 81R Lockout 86 CT supervision 60 VT supervision 60 Programmable stages 99 Programmable curve 99 Logic selectivity Thermal overload for feeder 49T Thermal overload for machines 49T
<b>Relay Type</b>	Multifunction control relay
<b>Controllable Switchgear Devices</b>	4 controlled + 8 displayed
<b>Number Of Setting Groups</b>	User
<b>Monitoring Functions</b>	Trip circuit supervision 74 Circuit breaker monitoring Relay self-monitoring
<b>Switchgear Diagnosis Type</b>	Cumulative breaking current (2 configurable buttons) Trip circuit supervision Nb of operations, operating time, charging time, nb of racking out operations VT supervision CT supervision
<b>Connections - Terminals</b>	Ring lugs flush mounting Clamp terminal

## Complementary

<b>Input Power Interruption</b>	50 ms
<b>Maximum Power Consumption In W</b>	15 W typical 25 W maximum
<b>Time Synchronisation Protocol</b>	SNTP IRIG-B
<b>Software Name</b>	Easergy SmartApp ESetup Easergy Pro
<b>Number Of Key</b>	2 contextual key 1 home 1 for LED test 1 local/remote 5 for navigation 2 for switchgear control
<b>Local Signalling</b>	11 x LED red status and alert 1 x LED green programmable

<b>Communication Compatibility</b>	IEC 61850 Modbus RTU DNP3 IEC 60870-5-103 IEC 61850 gose message Modbus TCP/IP Modbus
<b>Device Connection</b>	Extension port straight Serial port straight Serial port fiber optic Ethernet port straight Ethernet port fiber optic
<b>Standards</b>	EN 60255-26 EN 60255-27
<b>Height</b>	Total: 176 mm
<b>Width</b>	Total: 171 mm
<b>Depth</b>	Total : 226 mm
<b>Net Weight</b>	2.5 kg minimum

## Environment

<b>Ip Degree Of Protection</b>	IP54 conforming to IEC 60529
<b>Relative Humidity</b>	0...95 % at -40...60 °C

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

RoHS Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope)

China RoHS Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)